

## ABSTRACT

Disclosed is a system and method for monitoring,  
diagnosing, and treating certain medical conditions, such  
5 as asthma, gastroesophageal reflux or laryngopharyngeal  
reflux. The system includes a mask apparatus or sensor  
module fitted with a pH sensor and thermocouple, a  
continuous positive airway pressure (CPAP) device, a  
10 processing receiver, and a therapeutic  
nebulizer/atomizer/humidifier device. The mask apparatus,  
CPAP device and therapeutic nebulizer/ atomizer/humidifier  
device are connected by a pneumatic means. The pH sensor  
15 and the thermocouple are in electrical communication with  
the processing receiver that controls, through an  
electronic means, the CPAP device and therapeutic  
nebulizer/atomizer/humidifier device. The electrical  
20 communications can be in the form of a plurality of wires  
or employ wireless means.

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